1+1 POCKETS COIN SORTER

CS-211S

USER MANUAL

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1. Introduction

CS-211S is a coin sorter designed and produced by our company. It has counterfeit coin detection function. With the installed advanced eddy current sensor, it can simultaneously detect the metal coins' diameter, thickness and material, based on this feature, our CS-211S can automatically recognize foreign coins, counterfeit coins and sheet metals etc. CS-211S can count and sort coins of programmed denominations, during which the foreign coins will be sorted into Rejected Coin Drawer. Our CS-211S can be connected with printer, external display or computer through RS-232 port. All data can be printed out at any time.

2. Specifications

Sorting Speed	Approx.600coins/ min
Hopper Capacity	Approx.600pcs
Suitable Sorting Coin Range	Diameter 14-31mm
	Thickness≦4mm
Sorting Number	Up to 20 kinds of denomination
Machine Dimension	365×280×294mm
Weight:	13Kg
Power Consumption	60W
Power Supply	AC 120V ± 10%, 60Hz
	or AC 220V ± 10%, 50Hz
Display	LCD Display(24064)
Ambient Temperature	0-40C°
Humidity	30-75%

3. Function

CS-211S is able to identify, count and sort the coins, it can identify at most 20 kinds of denominations, also it has one reject pocket for fake and foreign coins.

From left to right it is

channel1	reject pocket

The user can sort the desired denomination into the desired pocket. Foreign coins, fake coins and tokens will be sorted into reject pocket

4. Key Panel

Key Function:

1） 0 ~ 9: Numeric key for fast batch number settings

2） STOP/START: Start or Stop

3） SET: Set Menu or set some functions

4） ESC: Return to Manu or clear rejected coin records

5） CLR: Clear counting records or clear error codes

, , , : Select different Channels, or select different Menu Setting; can also control Batch function ON/OFF, can

also shift MIX-COUNT or SDC- COUNT.

6） MR: Read memory data

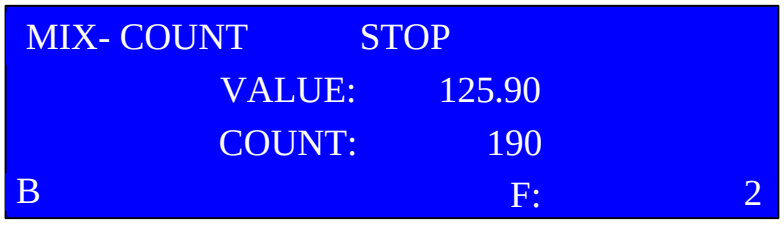
7） M+: Save Self-learning parameters

8） LIST: Check detailed counting list

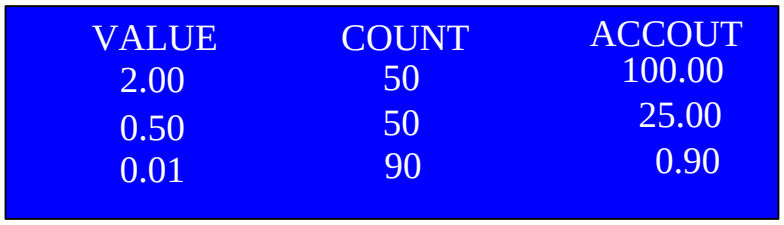
9） Print: Print sorting result and Self-learning parameters

5. Main Display Modes

（1）Total Amount & Quantity Display Mode:



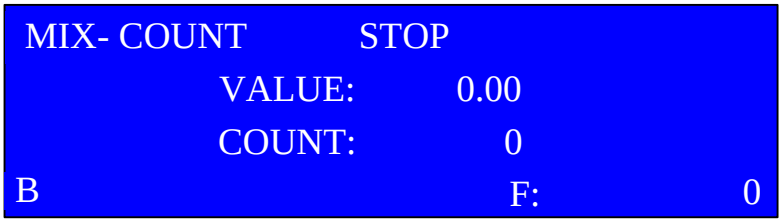
（2）Separate Channel Amount & Quantity Display Mode:



6. Operating Procedures

Plug the machine and turn on the power switch, it enters into self-test interface, shown as following picture.

This self-test stage may needs about 10 seconds for machine to get warmed up. If the test result is OK, then machine will enter into normal working status shown as following interface:



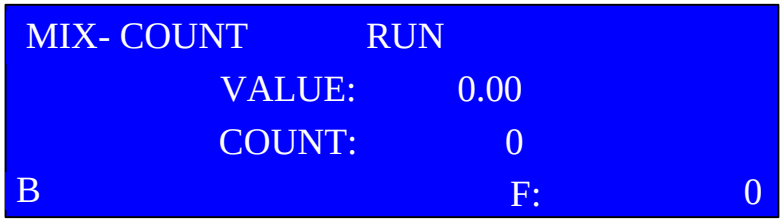
MIX-COUNT means mix-counting mode

RUN/STOP is the sign showing machine's running or stop status.

B is the sign of Batch Function is ON.

VALUE is for total Amount. **COUNT** is for total Quantity, **F** shows the quantity of foreign/fake coins.

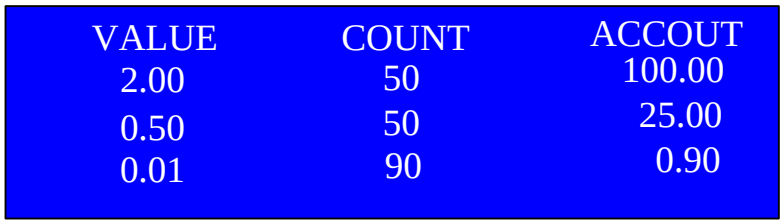
• Press START/STOP key, the machine will enter into Total Amount & Quantity Display Mode interface:



At the same time, Motor will begin to run to get the machine work. When coin sorting is finished, it will display the sorting result of genuine and foreign coins on the above interface. The foreign coins will be rejected into the right-most Rejected Coin Drawer.

After the machine stops running, press LIST key to check Separate Channel Amount & Quantity Display Mode, shown as follows:

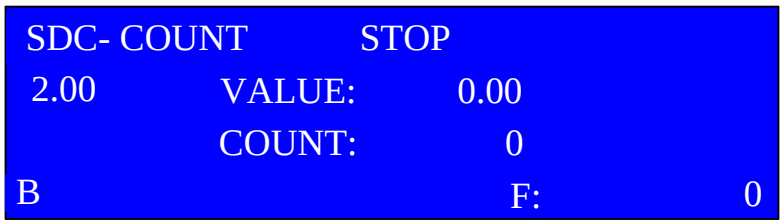
(Press , key to turn to choose different channel)



The left side group data shows coin denomination; the middle group data shows counted Qty for each denomination coin; the right side group data shows total counted amount for each denomination coin.

Modes shift:

Under main interface, press Key to shift the modes, which is MIX-COUNT, SDC- COUNT, accordingly. The display is shown as below:



Under MIX-COUNT mode, all the genuine coins will go to channel 1 pocket, foreign coins will go to reject pocket; Under SDC mode,press Key to choose the denomination you want to sort. Take Euro coins for example, you can choose 2.00, 0.50, 1.00, 0.20, 0.05, 0.10, 0.02 and 0.01. Based on the denomination you choose, the same denomination will go to channel1 pocket, other coins will go to reject pocket .

Data Clear:

·Under main modes interface, press CLR key to clear all counted data.

·Under main modes interface, press ESC key to clear rejected coin record.

Data Memory:

·Under main modes interface, press M+ key to save all counted data(excluding rejected coin Qty);

·Under self-learning mode, press M+ key to save coin parameters. (This function is only available for service engineer.)

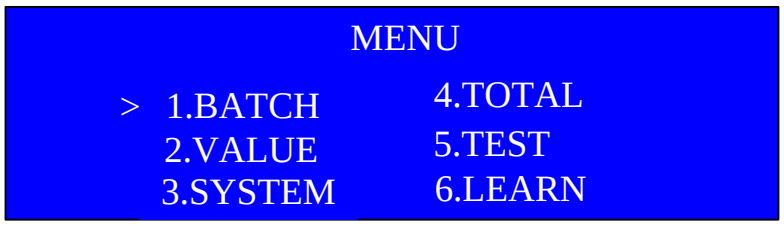
Data Memory Read:

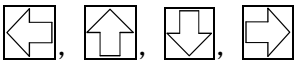
·Under main modes interface, press MR key to read stored data;

·Under self-learning mode, press MR key to initialize the system into default settings.

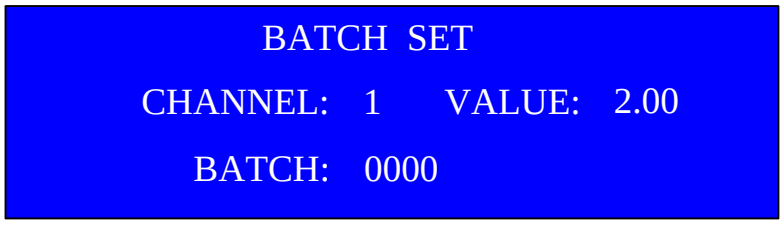
7. Function Settings:

Press SET key to enter into Menu interface, shown as follows:



Directly press  four keys to choose target submenu and then press SET key to enter each into detailed operation interface:

(1) **BATCH**



After entering into this interface, the Channel No. will blink, this means you can select target channel by pressing or key, the channel number will be increased or decreased by 1. Once target channel selection is done, press SET key to make the channel number locked. At this time, it will enter into Batch No. setting status with the

Batch number changed into white color. You could press 0~9 numeric key to set desired batch number. Pressing CLR key will clear the Batch number.

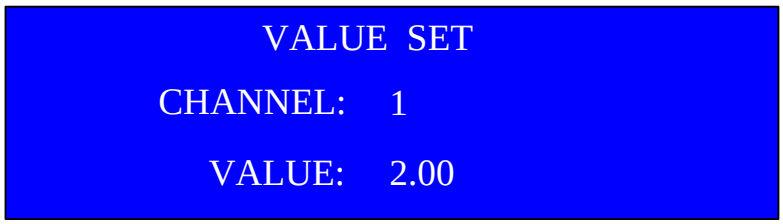
Notes: *Before entering into this interface to do Batch No. setting, you need to make sure firstly Batch function is ON by checking if there is a B sign on the left bottom corner. You can control this batch function is ON/OFF by pressing* ⇩ *key under main operation menu.*

When one channel Batch No. setting is finished, you can come back to channel number selection interface by pressing SET key and then repeat the above number setting way to set batch number for other target channels. After all settings are finished, press ESC key to quit from BATCH submenu to come back into main menu interface.

When the machine reaches set Batch number, the LCD display will show as follows:

For example, set batch number as 10 for Denomination 2.00 coin. When the machine counted 10th coin, the machine will stop running with blinking warning message " 2.00 BATCH OK" . After you take out the coins, please press CLR key to clear the warning message.

(2) **VALUE**

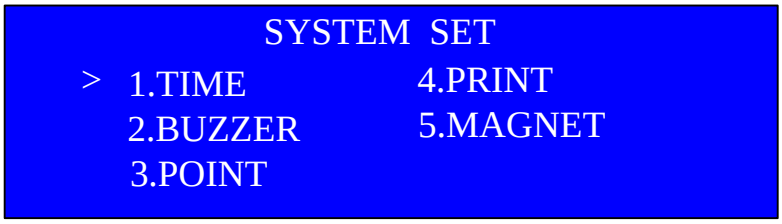


After entering into this interface, the Channel No. will blink, this means you can select target channel by pressing ⇧ or ⇩ key, the

channel number will be increased or decreased. Once target channel selection is done, press SET key to make the channel number locked. At this time, it will enter into value number setting status with the value number changed to be white color. You can press 0~9 numeric key to set value. Press CLR key to clear the Batch number.

When one channel Value No. setting is finished, you can come back to channel number selection interface by pressing SET key and then repeat the above number setting way to set value number for other target channels. After all settings are finished, press ESC key to quit from VALUE submenu to come back into main menu interface.

(3) **SYSTEM**

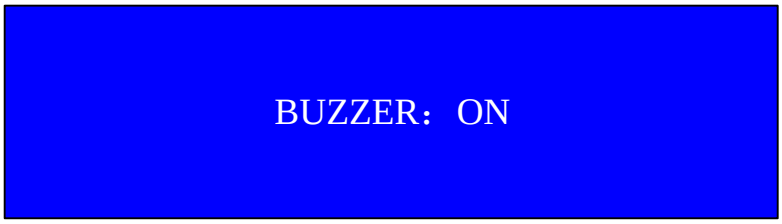


Firstly, it will enter into SYSTEM SET submenu, press or key to make the cursor up and down. And then press SET key to enter different setting interface.

1)TIME

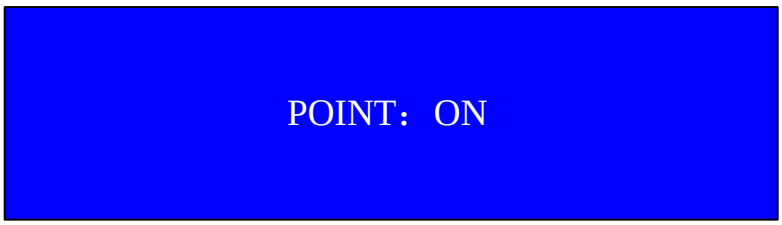
Under this interface, if you need to update date and time, please firstly press SET key to make the cursor blinking and then by press key to make the cursor moving. Directly press 0~9 numeric key to set your desired date and time. Press CLR key to clear data. After all settings are finished, press ESC key to return to main menu interface.

2)BUZZER



Under this interface, please press ⇧ or ⇩ key to turn ON/OFF this function. After setting, press ESC key to return to main menu interface.

3)POINT

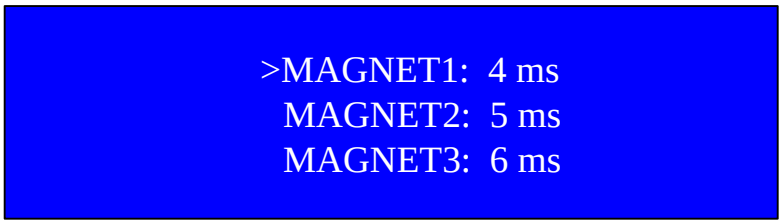


Under this interface, please press ⇧ or ⇩ key to turn ON/OFF this function. After setting, press ESC key to return to main menu interface.

4)PRINT

Under this interface, please press ⇧ or ⇩ key to choose PRINT 0 or set BAUD rate. Press SET key to choose either one, and then press ⇧ or ⇩ key to turn ON/OFF the function. After setting, press ESC key to return to main menu interface.

5)MAGNET



Under this interface, please press ⇧ or ⇩ key to choose MAGNET 1,2, or 3, and then press SET key to set solenoid activation time(suggested range is 3~9ms). By press ⇧ or ⇩ key, the time will be increased or decreased. After setting, press ESC key to return to main menu interface.

(4) **TOTAL**

This interface shows a memory record of all counted coin quantity. You can press ESC key to quit from this TOTAL submenu to come back into main menu interface.

(5) **TEST**

This submenu is for production adjustments purpose only. It is not available for users.

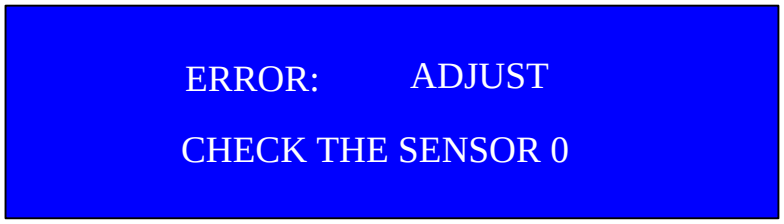
(6) **LEARN**

This submenu is for coin self-learning parameter tests and adjustments. It is not available for users.

8. Trouble Shooting

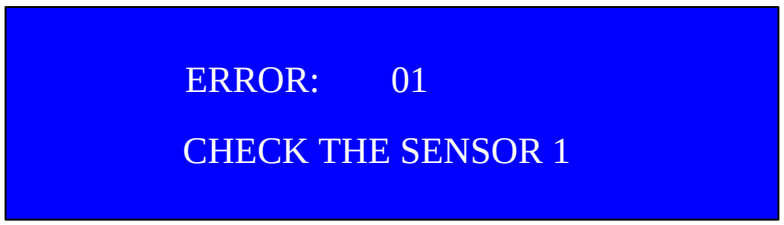
During self-testing or machine working status, sometimes the LCD screen may display following error code:

（1）**ERROR ADJUST**



·When it displays such error message, it means the alloy sensor signal is abnormal, which caused self-test problem, please contact local supplier for help.

（2）**ERROR 01**



·When it displays such error message, it means there is foreign thing covers the alloy sensor IR pipe. Please check and clean this part, including all connecting wires check. After solving this problem, press CLR key to come back into main display modes interface.

Notes: *If there are any foreign things get jammed on the rail, the dropped coins may not be counted, which will cause counting mistake. Therefore, please clean all coins by moving foreign things before sorting.*

9. Precautions:

·Use the power cord and communication cable supplied with this machine.

·Unplug the power cord before moving the machine.

·Avoid operation under direct sunlight.

·Do not put your head, hands, tools and clothes into the hopper to avoid personal injury or malfunction of the machine.

·Don’t open the Visible Cover during operation.

10. Daily Maintenance

·Be sure to unplug the power cord before daily maintenance.

·Clean the coin rail at least once a day with a brush.

·Clean the disc and hopper at least once a day with a brush.

· If the machine needs maintenance or spare parts, please contact the local supplier.

11. Accessories

1. Power Cable 1pc
2. Nylon Brush 1pc
3. Coin Moving Spoon 1pc
4. Turn brush 1pc

*** In the interests of our ongoing policy of continual product improvement, specifications are subject to change without prior notice. ***